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Mitogenic Activity of CTGF and CTGF Domains

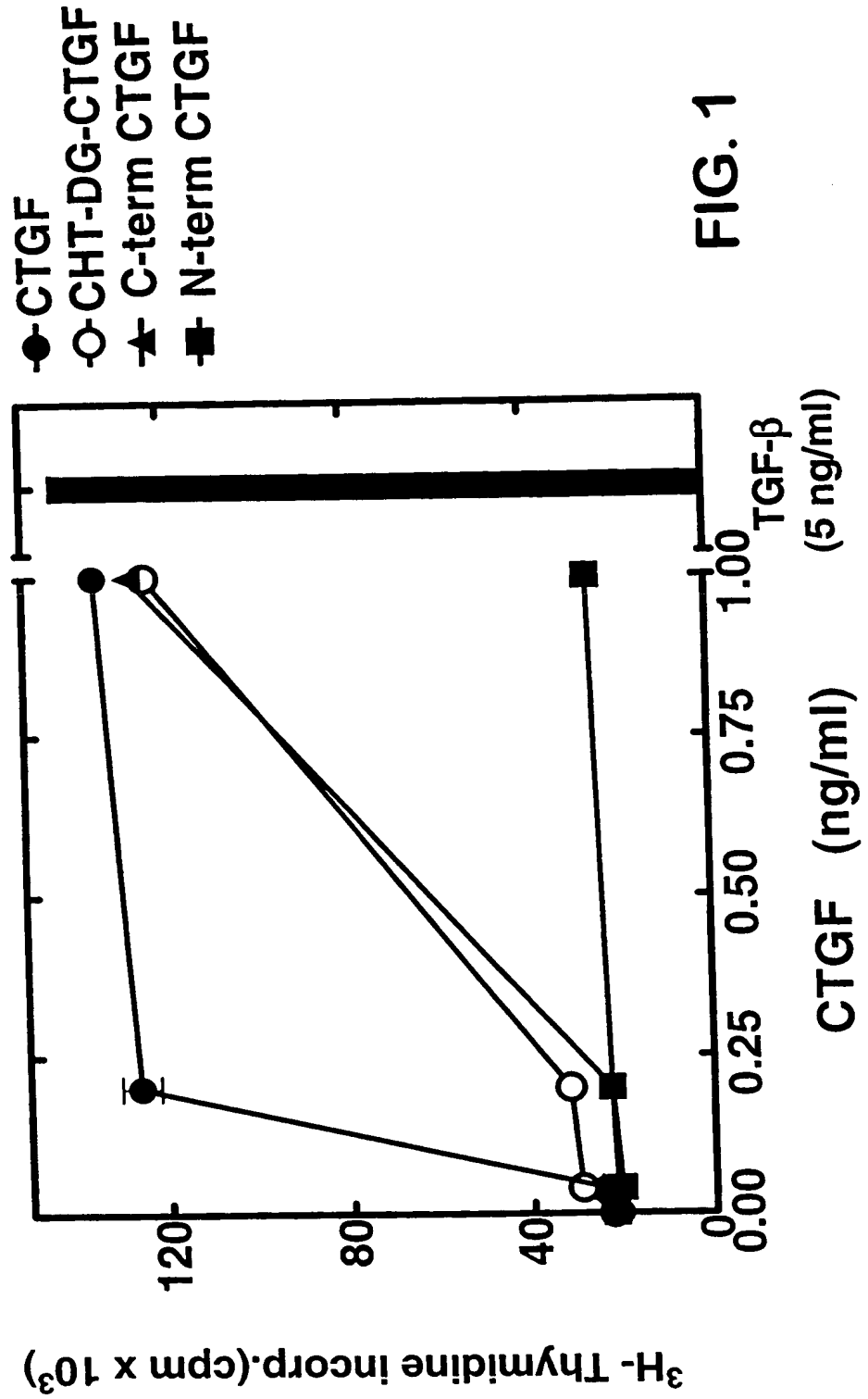


FIG. 1

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cccgccgacagccccgagacgacagcccggcgcgtcccggtccccacctccgaccaccgcca
gcgctccaggccccgcgctccccgctcgccgccaccgcgcctccgctccgcccgcagtgcc
accATGACCGCCGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCTCTCTC
M T A A S M G P V R V A F V V L L

GCCCTCTGCAGCCGGCCGGCCGTCCGGCCAGAACTGCAGCGGGCCGTGCCGGTGCCCGGAC
A L C S R P A V G Q N C S G P C R C P D
| -> exon 2

GAGCCGGCGCCGCGCTGCCCCGGCGGGCGTGAGCCTCGTGCTGGACGGCTGCGGCTGCTGC
E P A P R C P A G V S L V L D G C G C C

CGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCAC
R V C A K Q L G E L C T E R D P C D P H

AAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCC
K G L F C D F G S P A N R K I G V C T A
| ->

AAAGATGGTGCTCCCTGCATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCTTCCAG
K D G A P C I F G G T V Y R S G E S F Q
exon 3

AGCAGCTGCAAGTACCAGTGACGTGCCTGGACGGGGCGGTGGGCTGCATGCCCCCTGTGC
S S C K Y Q C T C L D G A V G C M P L C

AGCATGGACGTTTCGTCTGCCCAGCCCTGACTGCCCCCTTCCCGAGGAGGGTCAAGCTGCCC
S M D V R L P S P D C P F P R R V K L P

GGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCCT
G K C C E E W V C D E P K D Q T V V G P

GCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACCTATGATTAGAGCC
A L A A Y R L E D T F G P D P T M I R A
| -> exon 4

AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC
N C L V Q T T E W S A C S K T C G M G I

TCCACCCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC
S T R V T N D N A S C R L E K Q S R L C

FIG. 2-1

FIG. 2-2

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GCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCC
A L A A Y R L E D T F G P D P T M I R A
| -> exon 4

AACTGCCTGGTCCAGACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATC
N C L V Q T T E W S A C S K T C G M G I

TCCACCCGGGTTACCAATGACAACGCCTCCTGCAGGCTAGAGAAGCAGAGCCGCCTGTGC
S T R V T N D N A S C R L E K Q S R L C

ATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGGCAAAAAGTGCATC
M V R P C E A D L E E N I K K G K K C I
| -> exon 5

CGTACTCCCAAATCTCCAAGCCTATCAAGTTTGGAGCTTTCTGGCTGCACCAGCATGAAG
R T P K I S K P I K F E L S G C T S M K

ACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCACAGA
T Y R A K F C G V C T D G R C C T P H R

ACCACCACCCTGCCGGTGGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATG
T T T L P V E F K C P D G E V M K K N M

ATGTTTCATCAAGACCTGTGCCTGCCATTACAACCTGTCCCGGAGACAATGACATCTTTGAA
M F I K T C A C H Y N C P G D N D I F E

TCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAagccagagagtgagagacatt
S L Y Y R K M Y G D M A *

aactcattagactggaacttgaactgattcacatctcattttttccgtaaaaatgatttcagta
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FIG. 3

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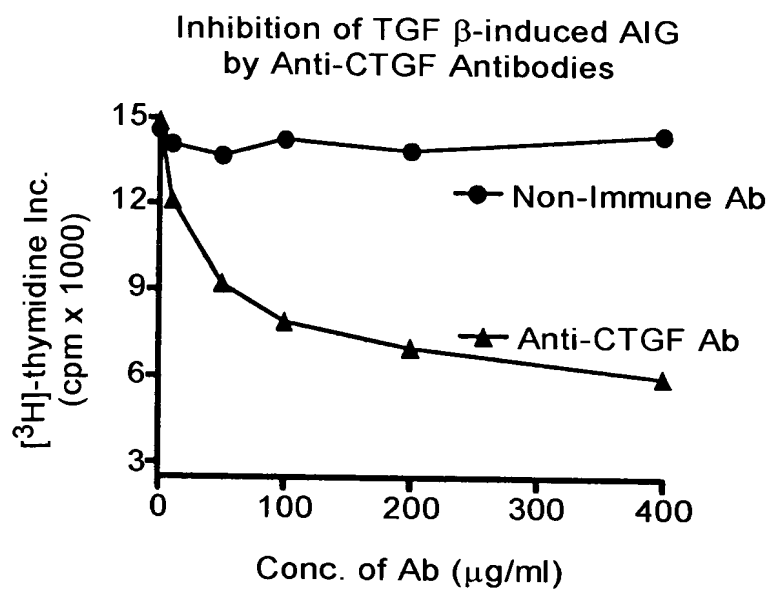


FIG. 4

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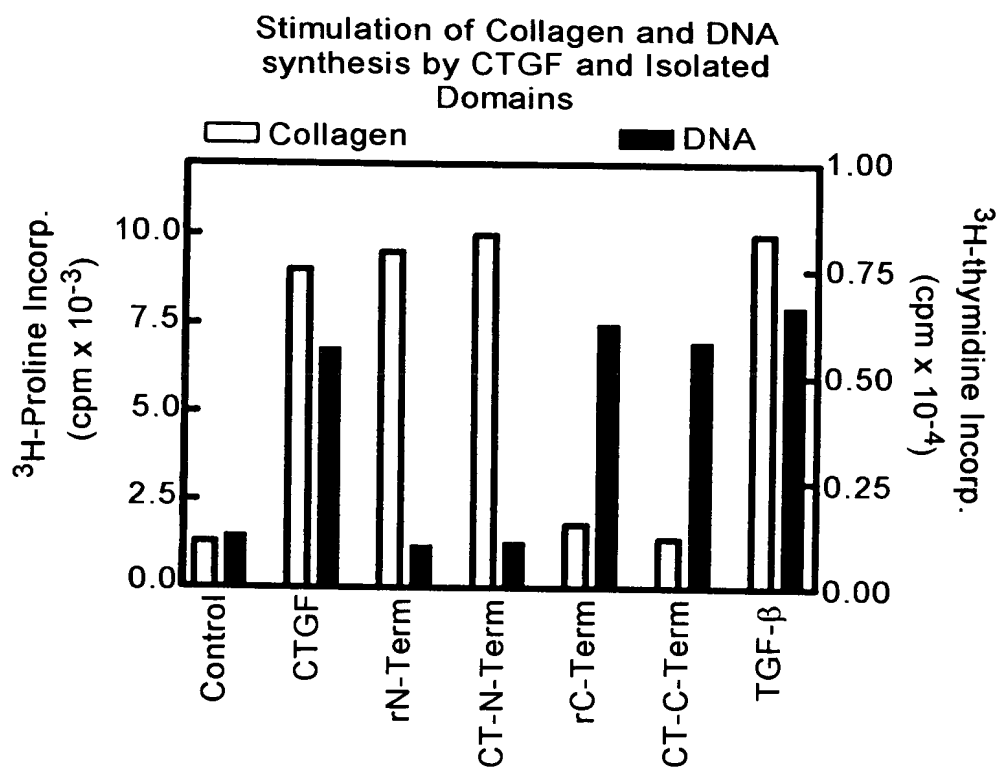


FIG. 5

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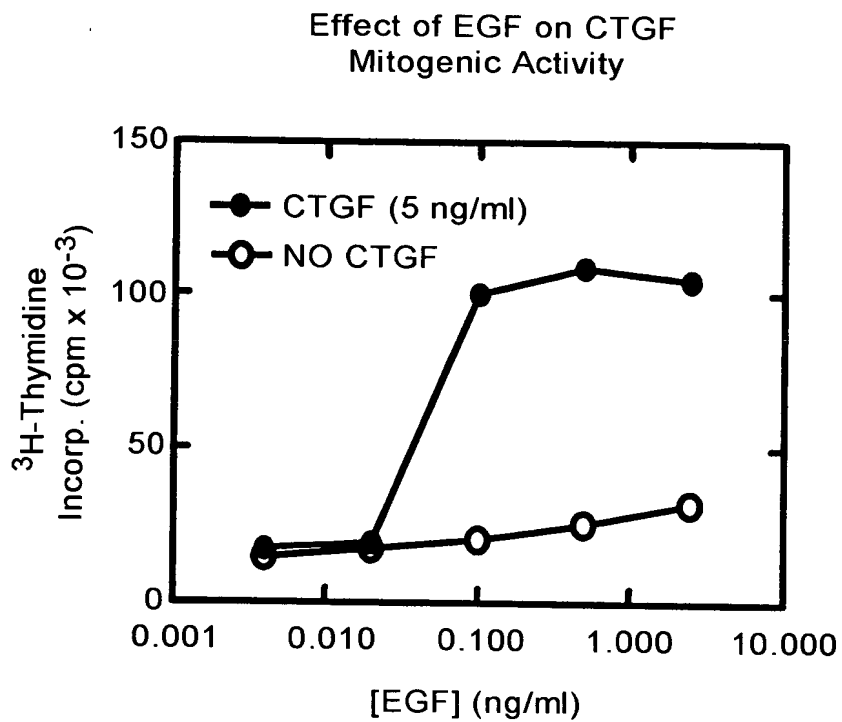


FIG. 6

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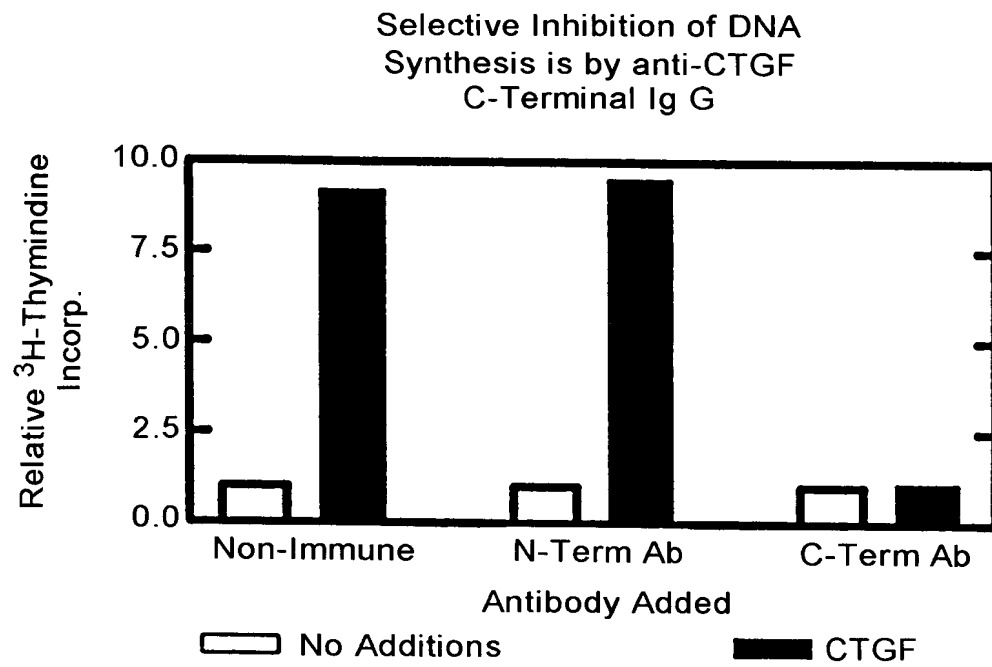


FIG. 7